

INTERNATIONAL SEARCH REPORT

Inte Application No
PC 01/50502

10/500098

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K35/78 A61K31/575 A61P31/04 A61P31/06 A61K31/616

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, PAJ, CHEM ABS Data, MEDLINE, FSTA, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; April 1998 (1998-04) AMELIO MAURO ET AL: "Separation of stigmasta-3,5-diene, squalene isomers, and wax esters from olive oils by single high-performance liquid chromatography run." Database accession no. PREV199800226777 XP002202991 abstract & JOURNAL OF THE AMERICAN OIL CHEMISTS' SOCIETY, vol. 75, no. 4, April 1998 (1998-04), pages 527-530, ISSN: 0003-021X</p> <p style="text-align: center;">-/-</p>	1,3

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

4 October 2002

Date of mailing of the international search report

10 JUN 2004

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

 Inter Application No
 PC 01/50502

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MOREDA W ET AL: "Gas and liquid chromatography of hydrocarbons in edible vegetable oils" JOURNAL OF CHROMATOGRAPHY A, ELSEVIER SCIENCE, NL, vol. 936, no. 1-2, 30 November 2001 (2001-11-30), pages 159-171, XP004322051 ISSN: 0021-9673 figure 4	1,3
A	DEL RO J C ET AL: "Analysis of pitch deposits produced in Kraft pulp mills using a totally chlorine free bleaching sequence" JOURNAL OF CHROMATOGRAPHY, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 874, no. 2, April 2000 (2000-04), pages 235-245, XP004194994 ISSN: 0021-9673 figures 1,2; table 2	
X	MORRIS J A ET AL: "ANTIMICROBIAL ACTIVITY OF AROMA CHEMICALS AND ESSENTIAL OILS" JOURNAL OF THE AMERICAN OIL CHEMISTS' SOCIETY, AMERICAN OIL CHEMISTS' SOCIETY. CHAMPAIGN, US, 1 May 1979 (1979-05-01), pages 595-603, XP000645444 ISSN: 0003-021X	9,12,13
Y	table III	10,11, 14,15, 26-29
X	WO 96 12467 A (PROCTER & GAMBLE) 2 May 1996 (1996-05-02) examples 70,71	9,12,13
X	EP 0 499 304 A (UNILEVER NV ;UNILEVER PLC (GB)) 19 August 1992 (1992-08-19) page 9 -page 10	9,12,13
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 20, 10 July 2001 (2001-07-10) & JP 2001 058901 A (KURITA WATER IND LTD), 6 March 2001 (2001-03-06)	9,13
Y	abstract	10,11, 26-29
X	US 4 299 826 A (LUEDDERS WILMER L) 10 November 1981 (1981-11-10) table 1	9,13
	-/-	

INTERNATIONAL SEARCH REPORT

 Inte Application No
 PC 1/01/50502

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 70215 A (BOECK HARRY) 27 September 2001 (2001-09-27)	9, 14, 15
Y	claims 2-5	10, 11, 14, 15, 26-29
X	--- PATTNAIK S ET AL: "ANTIBACTERIAL AND ANTIFUNGAL ACTIVITY OF AROMATIC CONSTITUENTS OF ESSENTIAL OILS" MICROBIOS, CAMBRIDGE, GB, vol. 358, no. 89, 1997, pages 39-46, XP008005194 ISSN: 0026-2633	9, 15
Y	abstract; tables 4, 5	10, 11, 15
X	--- WO 97 16159 A (WARNER LAMBERT CO) 9 May 1997 (1997-05-09) claims 1, 5	9, 15
X	--- US 5 635 184 A (CAMANO RICARDO M) 3 June 1997 (1997-06-03) page 1	9, 14
X	--- DEANS S G ET AL: "ANTIBACTERIAL ACTIVITY OF FRENCH TARRAGON (ARTEMISIA DRACUNCULUS LINN.) ESSENTIAL OIL AND ITS CONSTITUENTS DURING ONTOGENY" JOURNAL OF HORTICULTURAL SCIENCE, HEADLEY BROS. LTD., INVICTA PRESS, ASHFORD, GB, vol. 63, no. 3, 1988, pages 503-508, XP001038555 ISSN: 0022-1589 abstract; table I	9, 14
Y	--- FRAME A D ET AL: "Plants from Puerto Rico with anti-Mycobacterium tuberculosis properties." PUERTO RICO HEALTH SCIENCES JOURNAL. PUERTO RICO SEP 1998, vol. 17, no. 3, September 1998 (1998-09), pages 243-252, XP001084996 ISSN: 0738-0658 abstract	16-25
Y	--- KÁMORY E ET AL: "Isolation and antibacterial activity of marchantin A, a cyclic bis(bibenzyl) constituent of Hungarian Marchantia polymorpha." PLANTA MEDICA. GERMANY AUG 1995, vol. 61, no. 4, August 1995 (1995-08), pages 387-388, XP001084991 ISSN: 0032-0943 column 1; table 1	16-25
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INTERNATIONAL SEARCH REPORT

Interr Application No
PCT/ 01/50502

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 02, 26 February 1999 (1999-02-26) & JP 10 298095 A (LION CORP), 10 November 1998 (1998-11-10) abstract	16-25
A	GRANGE J M ET AL: "Detection of antituberculous activity in plant extracts." THE JOURNAL OF APPLIED BACTERIOLOGY. ENGLAND JUN 1990, vol. 68, no. 6, June 1990 (1990-06), pages 587-591, XP001085005 ISSN: 0021-8847	

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 01/50502

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 26-29 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound.
2. ☒ Claims Nos.: 1,2,4-8(partly)
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

As a result of the prior review under R. 40.2(e) PCT,
part of the additional fees are to be refunded.

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☒ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1,2,4-8(partly)

Present invention 1.1 relates to a compound identified as cobaltacene-octgomet.

This name, however, is considered to lack clarity within the meaning of Article 6 PCT, because it is unclear how the compound in question should look like and whether it relates to a specific derivative of cobaltocene.

The lack of clarity is such as to render a meaningful complete search impossible. Consequently, the search has been carried out for invention 1.2..

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-8,26-29(partly)

A pharmaceutical composition comprising a pharmaceutical carrier and at least cobaltacene-octgomet or stigmastan-3,5-diene in isolated or purified form and a method of inhibiting the growth of a mycobacterium using said composition.

1.1. Claims: 1(partly),2,4-5(partly),6-8,26-29(partly)

A pharmaceutical composition comprising a pharmaceutical carrier and at least cobaltacene-octgomet in isolated or purified form and a method of inhibiting the growth of a mycobacterium using said composition.

1.2. Claims: 1(partly),3,4-5(partly),26-29(partly)

A pharmaceutical composition comprising a pharmaceutical carrier and at least stigmastan-3,5-diene in isolated or purified form and a method of inhibiting the growth of a mycobacterium using said composition.

2. Claims: 9-15(partly),26-29(partly)

A pharmaceutical composition comprising a pharmaceutical carrier and at least galoxolide and a method of inhibiting the growth of a mycobacterium using said composition.

3. Claims: 9-15(partly),26-29(partly)

A pharmaceutical composition comprising a pharmaceutical carrier and at least benzyl salicylate and a method of inhibiting the growth of a mycobacterium using said composition.

4. Claims: 9-15(partly),26-29(partly)

A pharmaceutical composition comprising a pharmaceutical carrier and at least eucalyptol or alpha-pinene and a method of inhibiting the growth of a mycobacterium using said composition.

5. Claims: 16-25

A method of preparing a composition having antimicrobial activity comprising extracting a plant material in an

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

organic solvent.

Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

INTERNATIONAL SEARCH REPORT

Inter Application No

PCT/01/50502

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9612467	A	02-05-1996	AU 3677995 A CA 2211004 A1 EP 0805673 A1 WO 9612467 A1 US 5833999 A	15-05-1996 02-05-1996 12-11-1997 02-05-1996 10-11-1998
EP 0499304	A	19-08-1992	US 5114717 A AT 108645 T AU 652217 B2 AU 1076792 A CA 2060284 A1 DE 69200242 D1 DE 69200242 T2 EP 0499304 A1 ES 2056684 T3 JP 2549963 B2 JP 5058839 A US 5198218 A ZA 9200899 A	19-05-1992 15-08-1994 18-08-1994 13-08-1992 09-08-1992 25-08-1994 24-11-1994 19-08-1992 01-10-1994 30-10-1996 09-03-1993 30-03-1993 09-08-1993
JP 2001058901	A	06-03-2001	NONE	
US 4299826	A	10-11-1981	CA 1148469 A1 DE 3066507 D1 EP 0027286 A2 JP 1018883 B JP 1537607 C JP 56099416 A	21-06-1983 15-03-1984 22-04-1981 07-04-1989 16-01-1990 10-08-1981
WO 0170215	A	27-09-2001	WO 0170215 A1 AU 4035801 A	27-09-2001 03-10-2001
WO 9716159	A	09-05-1997	AU 7468096 A WO 9716159 A1	22-05-1997 09-05-1997
US 5635184	A	03-06-1997	US 5512284 A	30-04-1996
JP 10298095 1	A		NONE	